

CHESSE Users' Meeting 2013

June 4–5, 2013

Robert Purcell Conference Center, Cornell University, Ithaca, NY

Tuesday - June 4th

Status of CHESSE - Sol Gruner, Director & Joel Brock, Associate Director

ERL Update - Bruce Dunham, Project Manager, ERL

CHESSE Initiatives - Ernie Fontes, Associate Director

Status of MacCHESSE - Marian Szebenyi, Director MacCHESSE

Stephen Meisburger (Cornell University)

"Introducing cryo-SAXS: solution scattering from nanoliter volumes"

Nozomi Ando (Massachusetts Institute of Technology)

"Radical allostery in a radical protein"

Katsuhiko Murakami (Pennsylvania State University)

"Structural basis of rifampicin resistance by bacterial RNA polymerase"

Eaton Lattman, (Hauptman Woodward)

Jin Wang, (Advanced Photon Source)

"Ultrafast x-ray imaging of fuel sprays: fluid dynamics on time scale from microseconds to nanoseconds"

After Dinner Tribute to Sol Gruner, CHESSE Director

Wednesday - June 5th

Poster Prize Winner Awards

Presentations by 2013 "Best Student Paper" Awardees

WORKSHOP I: MEMBRANE PROTEINS

Toshi Kawate
Cornell University

"Tricks and pitfalls in eukaryotic membrane protein crystallization"

Olga Boudker
Cornell University, Weill Medical College
"Crystallographic study of the transport cycle intermediates of a glutamate transporter homologue"

Simon Li
Yale University
"Crystal structure of glycoprotein E2 from bovine viral diarrhea virus"

Reinhard Grisshammer
National Institutes of Health
"Structure of the agonist-bound neurotensin receptor NTS1"

WORKSHOP II: REAL TIME, IN SITU, IN OPERANDO STUDIES

Joost Vlassak
Harvard University

"Scanning nanocalorimetry combined with time-resolved x-ray diffraction - a new tool for studying transformations in complex materials systems"

Jay Schuren
Air Force Research Laboratory
"Changing the paradigm for engineering design by merging high energy x-ray data with materials modeling"

John Smedley
Brookhaven National Lab
"In-situ analysis of alkali antimonide cathode growth"

Joel Brock
Cornell University
"Structure of the SrTiO₃ (001) surface during photo-assisted water splitting"



To register:

www.chess.cornell.edu